

ZF Lenksysteme GmbH  
Schäbisch Gmünd

17.12.2001

5

Abstract

10 For a power assisted steering system for vehicles, in  
particular passenger cars, there is provision to form  
the hydraulic circuit with servopump and with a  
three-way flow regulator valve which is located at the  
junction between the pump and the servoactuator and has  
a measuring throttle, located in the inflow to the  
15 servoactuator, as a fixed throttle and an outflow  
throttle which is located in a bypass of the latter and  
which determines a variable throttle cross section by  
means of a piston which is charged alternately as a  
pressure compensator, the piston, which is charged via  
20 an active actuator element, changes the outflow  
throttle cross section as a function of the current  
applied in order to change the volume flow which passes  
via the measuring throttle.